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Advanced Cardiac Imaging - Koen Nieman - 2015-07-16
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Interventional Cardiology and Cardiac Catheterisation - John Edward Boland - 2019-04-24
Cardiology is becoming an increasingly complex field understood by only a select group of medical specialists. This publication demystifies many difficult topics in interventional cardiology and cardiac catheterisation, commencing with

many difficult topics in interventional cardiology technology and progressing to a comprehensive review of both new and established cardiac interventions. Unlike other publications that are directed mainly towards clinicians, this text is specifically written to assist newcomers such as such as medical trainees, nurses, technicians, scientific staff and other allied health professionals understand the wonders of interventional cardiology, and includes extensive explanations of the techniques of angiography, and new percutaneous. The comprehensive information presented herein, written by recognised specialists in their respective fields, will no doubt prove of great benefit to clinician and non-medical specialist alike.

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CT of the Heart - U. Joseph Schoepf - 2019-04-01
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stratification, prediction, and management, first edition of this text focused on what was then a novel instrument looking for application, this edition comes at a time where a wealth of guideline-driven, robust, and beneficial clinical applications have evolved that are enabled by an enormous and ever growing field of technology. Accordingly, the focus of the text has shifted from a technology-centric to a more patient-centric appraisal. While the specifications and capabilities of the CT system itself remain front and center as the basis for diagnostic success, much of the benefit derived from cardiac CT today comes from avant-garde technologies enabling enhanced visualization, quantitative imaging, and functional assessment, along with exciting deep learning, and artificial intelligence applications. Cardiac CT is no longer a mere tool for non-invasive coronary artery stenosis detection in the chest pain diagnostic algorithms; cardiac CT has proven its value for uses as diverse as personalized cardiovascular risk stratification, prediction, and management, diagnosing lesion-specific ischemia, guiding minimally invasive structural heart disease therapy, and planning cardiovascular surgery, among many others. This second edition is an authoritative guide and reference for both novices and experts in the medical imaging sciences who have an interest in cardiac CT.

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Advances in Cardiology - Kanu Chatterjee - 2014-03-20

the field of cardiology, with emphasis on cardiovascular pathophysiology and new diagnostic and therapeutic techniques used for the management of patients with cardiovascular disease. Divided into ten sections, the book examines different aspects in the diagnosis and treatment of heart disease, including key advances in interventional cardiology, innovations in technology, and advances in pharmacotherapy. Implantable cardiac devices and atrial fibrillation are discussed in depth. Edited by internationally recognised Professor Kanu Chatterjee from the University of Iowa and the University of California San Francisco; and Professor Phillip A Horwitz from the University of Iowa, this comprehensive reference includes nearly 350 images and illustrations to enhance learning. Key points Comprehensive guide presenting recent advances in cardiology Emphasis on pathophysiology and new diagnostic and therapeutic techniques In depth coverage of

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Emerging Pathologies in Cardiology - M.M. Gulizia - 2006-09-19
Clinical practice is evolving at a rapid pace,nowhere more so than in the field of cardiology.Acute Coronary Syndromes, Sudden Cardiac Death, Heart Failure, Atrial Fibrillation,Syncope,and Prevention of Global Cardiovascular Risk are the main Emerging Pathologies to which many investigators are addressing their researches. Less than 10 years ago, some of them were considered of relevance only to internists, and some others as a common benign arrhythmia or an ineluctable illness. Today, their prevalence amongst the population

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Multi-slice CT in Cardiac Imaging - Bernd M. Ohnesorge - 2013-03-09
Cardiac diseases and in particular coronary artery disease are the leading cause of death and morbidity in the industrialized countries. The development of reliable cardiac imaging techniques is considered a key issue in improving patient care. This book presents and discusses the technical concepts, the potential spectrum of applications and the future perspectives of multi-slice CT in cardiac imaging. The discussion is based on the experience of internationally leading clinical institutions. It shows that this new modality has the potential to become an important and robust tool for non-invasive and early diagnosis of cardiac diseases.

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Multislice CT - Maximilian F Reiser - 2008-10-20
With contributions by numerous experts

Computed Tomography Imaging in 2012, An Multislice CT - Maximilian F Reiser - 2008-10-20
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Computed Tomography Imaging in 2012, An Issue of Cardiology Clinics - Jagat Narula - 2012-02-28
Cardiac CT obtains information about coronary arteries, great arteries and veins, and heart valves. It shows the location and extent of calcified plaque in the coronary arteries and helps detect coronary artery disease at an early stage, which neither traditional imaging techniques nor cardiac testing can do. Over the last decade technologic advances in CT angiography have been made at a rapid rate, and the new applications and refinements of existing technology continue to be made. This issue will help practicing cardiologists to keep up with the latest technology in this important and swiftly moving field.

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Cardiac CT Imaging - Matthew J. Budoff - 2006-09-03
CT is an accurate technique for assessing cardiac structure and function, but advances in computing power and scanning technology have

resulted in increased popularity. It is useful in evaluating the myocardium, coronary arteries, pulmonary veins, thoracic aorta, pericardium, and cardiac masses; because of this and the speed at which scans can be performed, CT is even more attractive as a cost-effective and integral part of patient evaluation. This book collates all the current knowledge of cardiac CT and presents it in a clinically relevant and practical format appropriate for both cardiologists and radiologists. The images have been supplied by an experienced set of contributing authors and represent the full spectrum of cardiac CT. As increasing numbers have access to cardiac CT scanners, this book provides all the relevant information on this modality.

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Springer Handbook of Medical Technology - Rüdiger Kramme - 2011-10-02
This concise, user-oriented and up-to-date desk reference offers a broad introduction to the fascinating world of medical technology, fully

condensation of complex facts. This book is an development in all relevant fields. The Springer Handbook of Medical Technology is a systemized and well-structured guideline which distinguishes itself through simplification and condensation of complex facts. This book is an indispensable resource for professionals working directly or indirectly with medical systems and appliances every day. It is also meant for graduate and post graduate students in hospital management, medical engineering, and medical physics.

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Molecular Anatomic Imaging - Gustav Konrad von Schulthess - 2007
This fully updated Second Edition focuses sharply on clinical PET-CT and SPECT-CT examinations, omitting lengthy physics discussions. The book is now strictly disease oriented and integrates PET-CT and SPECT-CT applications completely. When both techniques are relevant for a disease, they are discussed together; when only one is relevant, it is discussed alone. More than 1,200 illustrations are included. A bound-in DVD contains over 80 cases to be viewed in three orthogonal planes and different CT windows organized as reference and self-assessment files. The cases provide

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Abrams' Angiography - Stanley Baum - 2006
Provides coverage of various vascular and nonvascular interventional procedures. This book discusses equipment and describes interventions for specific disorders of each organ system, as well as for trauma, paediatric diseases, abscess drainage, and miscellaneous disorders.

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Interventions in Structural, Valvular and Congenital Heart Disease - Horst Sievert - 2015-02-10
At one time, many children born with congenital heart disease (CHD) suffered from issues that carried fatal prognoses. But that's changing, thanks to technological advances. Interventions in Structural, Valvular, and Congenital Heart Disease, Second Edition guides you throught the

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Cardiac CT, PET and MR - Vasken Dilsizian - 2011-09-14
This careful revision keeps pace with developments in the field, with new chapters on PET Metabolism, CT and MRI in the Emergency Department, Image-Guided Electrophysiology Mapping and Ablation, and Identification of Vulnerable Atherosclerotic Plaque by

Radionuclide and CT techniques, plus the introduction of new contributors Udo Hoffman and Stephan Achenbach. Praised in its previous edition as a concise source of essential information, this new edition presents the most

imaging The final section deals with advanced serves as an excellent reference source for all cardiologists, radiologists and nuclear medicine physicians.

Novel Techniques for Imaging the Heart - Marcelo F. Di Carli - 2009-01-26
This book brings the recent dramatic changes in the field ofcardiovascular imaging into the clinical setting to enable theclinician to best use the technology at hand. Novel Techniques for Imaging the Heart opens with threechapters reviewing the general considerations and fundamentals ofimaging, followed by a series of chapters that address clinicalapplications of CT and CMR, including critical review of imaging approaches for diagnosis andprognosis of CAD evaluating the patient with new onset heart failure evaluating the patient before non-cardiac surgery evaluating the patient before interventionalelectrophysiology novel assessment of vascular flow and valvular disease relative merits of CTA and MRA for coronary artery

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Atlas of Cardiovascular Computed Tomography - Matthew J. Budoff - 2018-05-23
This atlas is a comprehensive visual reference for the use of cardiovascular computed tomography (CT) containing photomicrographs, anatomic illustrations, tables, and charts paired with extensive legends and explanations that are supplemented by extensive research, peer-reviewed articles, and textbooks. In addition to providing historical perspective and current

Cardiovascular Computed Tomography 2e focuses on research involving coronary artery diseases and anomalies, congestive heart failure, atherosclerotic plaques and asymptomatic disease, as well as imaging techniques, including preparation, acquisition, and processing, involving the great vessels and carotids, the peripheral vasculature, and coronary and pulmonary veins. The increasing role of CT in the emergency room and in private cardiology practice is also reviewed thoroughly, making this an essential read for all involved in cardiac imaging, cardiology and emergency medicine.

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Advances in X-Ray Contrast - P. Dawson - 2013-06-29

For all that new non-X-ray technologies such as MR and ultrasound and its various manifestations have made an enormous impact in recent years on the practice of medical imaging, the use of X-rays and X-ray contrast agents has retained an important position at the heart of the process. Indeed, with its frequent requirements for high total dose regimes, CT has increased the use of contrast agents. Even helical/spiral CT which, it was initially argued, should reduce contrast as well as radiation loads, may actually require just as much or more of both because of the potential it offers for multi-phase scanning. Iodinated intravascular X-ray contrast agents, especially the more recently developed non-ionic agents, continue therefore to play a pivotal role in clinical imaging. These succinct and authoritative articles, originally appearing in the journal Advances in X-ray Contrast, range sufficiently widely for their compilation in this volume to be considered a mini-textbook on the water-soluble iodinated X-ray contrast agents and their applications. Each is written by an acknowledged and experienced expert in the field. They usefully cover the developmental history of the agents; defined risk factors,

protocols for contrast administration with this treatment of adverse reactions; the interesting subject of supposed delayed reactions to contrast agents; the important organ-specific toxicities, cardiac toxicity, neurotoxicity and nephrotoxicity and high-dose toxicity as encountered in complex procedures; the sometimes special circumstances and occasional extreme conditions to which contrast agents may be exposed in Interventional Radiology; the special, in several ways, case of paediatric radiology; the controversial subject of thromboembolic phenomena in clinical angiography; and the precise role of contrast agents. As regards the practicalities of contrast administration regimes and imaging protocols it is really only in the area of CT that there is debate and controversy, and articles are included which cover CT of the liver, spleen and pancreas, and protocols for the new spiral/helical technology and even for the much less widely available electron-beam CT technology visualization. Pulmonary embolus diagnosis and technology are also discussed.

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Cardiovascular Magnetic Resonance - E. Nagel - 2004-08-25
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enables practitioners to determine which test, in which patient population, and for which purpose would be the most appropriate to use.

Recent Advances in Diagnostic Neuroradiology - Ph. Demaerel - 2013-12-20
Diagnostic neuroradiology is undergoing such rapid change that standard texts are quickly becoming outdated in important respects. Recent Advances in Diagnostic Neuroradiology is designed to complement the general textbooks of neuroradiology by documenting and discussing the progress that has been achieved. Following six introductory chapters, 26 important topics in brain and spinal imaging are discussed in detail, with appropriate illustrations and a review of the most recent literature. Each of these topics has specifically been chosen in order to summarize recent developments and to document the state of the art in the field. This book, written by acknowledged experts in the field, will be of relevance and importance to all with an interest

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Zipes and Jalife's Cardiac Electrophysiology:

technologies including stereotactic radioablation. 2021-12-16
Fully updated from cover to cover, Zipes and Jalife's Cardiac Electrophysiology: From Cell to Bedside, 8th Edition, provides the comprehensive, multidisciplinary coverage you need—from new knowledge in basic science to the latest clinical advances in the field. Drs. José Jalife and William Gregory Stevenson lead a team of global experts who provide cutting-edge content and step-by-step instructions for all aspects of cardiac electrophysiology. Packs each chapter with the latest information necessary for optimal basic research as well as patient care. Covers new technologies such as CRISPR, protein research, improved cardiac imaging, optical mapping, and wearable devices. Contains significant updates in the areas of molecular biology and genetics, iPSCs (induced pluripotent stem cells), embryonic stem cells, precision medicine, antiarrhythmic drug therapy, cardiac mapping with advanced techniques, and ablation

Includes 47 new standalone chapters that are organized into discrete topics for improved access. Discusses extensive recent progress in the understanding, diagnosis, and management of arrhythmias, including new clinical insights on atrial fibrillation and stroke prevention, new advances in the understanding of ventricular arrythmias in genetic disease, and advances in implantable devises and infection management. Features 1,600 high-quality photographs, anatomic and radiographic images, electrocardiograms, tables, algorithms, and more., with additional figures, tables, and videos online. Recipient of a 2018 Highly Commended award from the British Medical Association.

Zipes and Jalife's Cardiac Electrophysiology: From Cell to Bedside, E-Book - Jose Jalife - 2021-12-16
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Cardiac CT Imaging, An Issue of Radiologic Clinics of North America, Ebook - Suhny Abbara - 2018-11-21

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aortic disease; Cardiac Valves (excluding TAVR); manifestations; Pericardial disease; Relevant Adult Congenital Heart Disease; Congenital aortic disease; Cardiac Valves (excluding TAVR); Acute coronary and acute aortic syndromes; Acquired aortic disease (excluding acute aortic syndromes); Cardiac Trauma; Post Cardiovascular surgery findings; and more!

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Cardiac Imaging: The Requisites E-Book - Lawrence Boxt - 2009-04-20
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valvular, ischemic, pericardial, myocardial, congenital, and thoracic/aortic heart disease. Describes all of the imaging modalities currently being used (plain film, ultrasound, CT, and MR), and discusses potential future developments. Delivers outstanding illustrations that demonstrate a full range of cardiac imaging approaches and findings. Features the expert contribution of two new co-editors, Drs. Suhny Abbara and Larence Boxt, to provide you with fresh perspective on the latest technologies. Covers the various modalities of MR, CT, PET, and SPECT perfusion in more depth. Includes new chapters on Cardiac CT and Coronary CTA for current information on all imaging modalities. Presents updated and redrawn illustrations and color images interspersed throughout the text for easier and more intuitive access.

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Advances in Atrial Fibrillation Ablation, An Issue of Cardiac Electrophysiology Clinics - Luigi Di Biase - 2020-07-16

In collaboration with the Consulting Editors, Ranjan K. Thakur and Andrea Natale, Drs. Luigi Di Biase, Frank Marchlinski, and Andrea Natale have assembled an issue of Cardiac Electrophysiology Clinics on Advances in Atrial Fibrillation Ablation. Topics include, but are not limited to, Recurrent atrial fibrillation with isolated PVs, Beyond PVI in non paroxysmal

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Principles of Cardiac and Vascular Computed Tomography has everything you need to successfully obtain and interpret CT and CTA images. Stuart J. Hutchison-a premier cardiac imaging specialist-explains the dos and don’ts of CCT so you get the best images and avoid artifacts. Get only the coverage-from evidence-based CTA to noncoronary lesions-you need with clinically oriented, practical information presented in a consistent format that makes finding everything quick and easy. High-quality images and access to the text and more at Expert Consult makes this the one cardiovascular computed tomography resource that has it all. Access videos of CTA procedures at Expert Consult. Get only the coverage that you need-from evidence-based CTA to determination of coronary calcium to noncoronary lesions-from focused, clinically oriented, and practical

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Heart failure is epidemic throughout the world. A growing incidence and prevalence has resulted in a large population of individuals transitioning to advanced stages of the syndrome and requiring uniquely specialised therapies and cardiac transplantation. i The Oxford Textbook of Advanced Heart Failure and Cardiac Transplantationr is a focused and comprehensive work covering this new and rapidly growing cardiovascular subspecialty. Authored by eminent international experts, it is the authoritative text on advanced heart failure and a central resource for clinicians caring for patients with this condition. By covering a range of characteristics, therapeutic challenges and practical aspects of managing patients, this book provides an in-depth source for cardiologists and other related clinicians. A strong focus on the

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Computed Tomography of the Coronary Arteries, Second Edition - Pim J. de Feyter - 2008-09-04
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Acute Medicine - Derek G. Waller - 2016-09-13
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